

		Tissue Sample										
		1	2	3	.	.	.	.	.	.	.	60
mRNA	1	$x_{1,1}$	$x_{2,1}$	$x_{3,1}$	.	.	.	.	.	.	.	$x_{1,60}$
	2	$x_{1,2}$	$x_{2,2}$	$x_{3,2}$	.	.	.	.	.	.	.	$x_{2,60}$

60,000		$x_{60,000,1}$	$x_{60,000,2}$	$x_{60,000,3}$	.	.	.	.	.	.	.	$x_{60,000,60}$
Treatments	1	$Y_{1,1}$	$Y_{1,2}$	$Y_{1,3}$	.	.	.	.	.	.	.	$Y_{1,60}$

70,000		$Y_{70,000,1}$	$Y_{70,000,2}$	$Y_{70,000,3}$	.	.	.	.	.	.	.	$Y_{70,000,60}$

400 **FIG. 4**

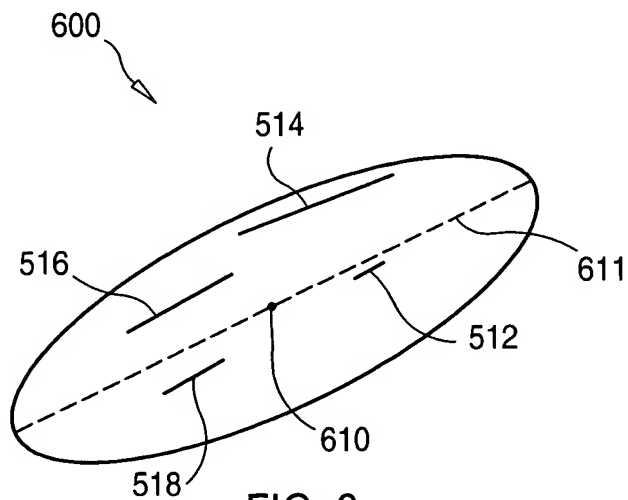


FIG. 6

	501	502	503	504	505	506	507	508	509	511	510	518	519	
Idrow	LC:NC1-H23	LC:NC1-H26	LC:AS49ATCC	LC:NC1-H22M	LC:EKVX	LC:NC1-H22	LC:HOP-62	LC:HOP-62	LC:HOP-92	Cluster	Distance	NSC or gene	Drug Name or gene (4-Methoxyphenyl)-1,3	
328	-0.11128623	0.176505063	0.14921365	0.375907987	0.646788657	-0.079102121	0.072614521	-0.210706532	23	0.75528608			638484	
1663	-0.318399429	0.415162663	0.205730468	0.382667363	0.076949803	-0.999849796	0.224805415	0.093632996	23	0.75556102		"H.sapiens hbm mRNA	est	
2169	-0.237350881	0.80352573	0.146478295	0.316387355	0.158144951	-0.807192883	0.221313775	0.024145007	23	0.77565903		"HSD3B1 Hydroxy-delta	est	
2245	0.078980424	0.422789901	0.139431372	-0.004957419	0.316234708	-0.435221642	-0.0716874	0.48876977	23	0.78048991		691700	691700	
2106	-0.140933037	0.461490691	0.499990685	0.239453338	0.128433963	-1.042428613	0.307134688	0.010511637	23	0.79477643	"SID 470501, ESTs	est		
2432	-0.1748593	0.112137318	0.077583936	0.388694452	0.176868765	-1.131978273	0.22495997	0.092113219	23	0.80479103	"SID W 470610, Homo	est		
695	-0.076172821	0.353985965	-0.11170274	0.121181577	-0.112142891	0.107680403	0.081476666	-0.245336369	23	0.81949499	698249	698249		
1338	0.16811819	-0.37088871	0.186457409	0.210556643	0.462407589	0.048239193	0.316761762	0.179974854	23	0.84817046	"Homo sapiens GBAS"	est		
1214	-0.187852487	0.051038168	0.162333588	0.299287945	0.583450139	-0.904382706	0.043432295	0.298958884	23	0.84980264	2013	10-Undecenoic-Serimon		
1395	-0.333529115	0.824200225	0.195442408	0.793923378	0.255947471	-0.808228301	0.225863993	0.031121492	23	0.87483881	"SID W 488046, ESTs	est	512	
1981	0.064776063	-0.343039513	0.013931334	0.301969051	-0.096971869	-0.909188867	0.225828316	0.279256523	23	0.88244174	"SID W 195336, Homo	est		
1598	0.217021704	0.687419474	0.657768322	0.598295523	-0.170578725	-0.310296714	0.556480229	-0.146480709	23	0.8882868	"TXNIPD1 Thioredoxin	est		
1652	-0.136285618	0.246318996	0.059461489	0.431177616	0.123365164	-1.222979307	0.193187922	0.067459166	23	0.88994507	"SID W 509612, CLEAVAGE	est		
1958	-0.162251085	0.447149515	0.558662126	0.285014331	0.209431112	-1.138800051	0.351675749	0.077234894	23	0.89170218	"ESTs Chr.4 [48822	est		
1646	0.117486537	1.02794638	0.073064208	0.529455854	0.35881573	-0.264473051	0.638888061	-0.031432077	23	0.90443955	"SID W 298059, ESTs	est		
1697	-0.138905393	0.562757611	-0.021258652	0.504650652	-0.036209285	-1.091620564	0.108646862	-0.103916168	23	0.93066404	"SID W 510489, Transferrin	est		
1395	0.647027731	0.280829787	0.292306006	0.441056967	0.80108302	-0.554738343	0.204279572	0.483417749	23	0.93058997	"TISSUE FACTOR PATHWAY INHIBITOR	est		
1456	-0.134611607	0.757488489	0.156647593	0.251265675	0.413824575	0.348856888	0.49980196	0.119401693	23	0.96829182	"ESTs, Weakly similar to GAP22 protein	est		
2425	-0.414356763	-0.186291218	0.275927961	0.280380845	0.34650743	-1.120622158	0.307901472	0.106554359	23	0.98821561	"GLRX Glutaredoxin	est		
2782	-0.106823688	0.187982798	-0.689450089	-0.081969425	0.002359466	-0.453278124	0.657648206	0.176251769	23	0.97242958	"SID W 60204, Homo sapiens	est		
2777	0.443294168	0.254137874	-0.518829286	0.139691621	0.083818863	-0.897575855	0.541921735	0.269545645	23	0.98064555	"SID 35316, ESTs [5'-P24770, 3'-P45503] "	est		
2219	-0.222163331	0.355980694	-0.613482475	0.406674802	0.187242478	-0.056112427	0.095992096	-0.265888019	23	1.00344521	656156	656156		

Fig. 5A

501	502	503	504	505	506	507	508	509	511	510	518	519
1035	0.59174782	-0.472067058	1.049850941	-0.130432069	-0.042583555	-1.090880944	-0.508516371	-0.85551703	23	201540786	642049	642049
2485	-1.017101288	0.551484346	-0.417378098	-0.374083847	0.344193816	0.992566109	0.143580616	0.393266348	23	201541842	"Homo sapiens cyclin-dependent	est
2067	-0.128467411	0.128146335	-0.671163261	0.074424088	0.17572777	1.365454435	0.811493158	0.304440498	23	201613372	"SID W 415061, ESTs	est
1977	-0.766986203	0.284800611	-0.461407721	-0.194372892	-0.295666324	-1.580191374	0.178866635	-1.072011828	23	201719192	"SID W 417320, Plasminogen activator	est
2520	0.067721359	1.80341351	0.506830693	0.290597707	1.071573853	0.177196115	0.958890047	0.265765965	23	201865206	"SID 201330, ESTs [5'R99701, 3'R995596]"	est
1827	-0.197292775	0.911904454	0.66439867	0.121587418	-0.576198895	-0.238215327	-0.247811511	-1.126745462	23	201964736	"Human fetus brain mRNA	est
2095	0.03913632	0.62996419	1.912577629	0.281426251	0.787333992	-0.466888994	0.052946653	-0.457666963	23	201988567	"INTERLEUKIN-1 RECEPTOR, TYPE I	est
1809	-1.079775572	-0.041749958	-0.039842077	-0.18036249	-0.30931738	-0.624570191	0.695960045	1.547246833	23	202059792	"SID 344786, Human mRNA	est
1367	-0.238405168	0.037147999	-0.141207382	0.65131557	-1.624247193	-0.037735999	0.078842044	0.5826419	23	202107778	"Homo sapiens KIAA0429 mRNA	est
1493	0.066943645	0.4572649	-0.175981224	-0.964937073	0.550413191	-0.222505791	1.605974674	-0.885804892	23	202160965	"SID W 484681, Homo sapiens EST130	est
491	-0.271484077	0.919039547	1.558835626	-0.507312182	0.043116227	-0.709885018	1.087688804	0.577217162	23	202189107	301739	Mitochondrion
2277	0.84201479	-0.594415665	0.40828824	0.40828824	0.370500267	-0.026889132	-0.733894871	-0.664064944	23	202192883	518	1
2635	0.327130854	2.041123867	0.203182548	0.345517129	0.097729474	-0.477246881	0.316134542	0.868397117	23	202230294	"SID W 376416, Complement	est
95	0.661729397	0.40828824	0.484313488	1.347983016	0.185263336	-0.494236674	0.405760497	-1.490553396	23	202341173	1-Piperazinecarbothioic	est
1938	-0.363292009	1.737147889	-0.276988539	-0.002954174	0.160331607	-0.946163177	0.311912824	1.104578906	23	202376721	"MT1L Metallothionein	est
907	0.827659011	1.083080095	-0.042288482	-0.620379399	-1.109078407	0.06671676	0.43595518	0.039990805	23	202405693	640322	[[Aminomethyl]-2-aminopropyl]amino
1863	-0.550456226	-0.856936276	-0.289816678	0.03772549	-0.506671309	-0.784143686	1.218915807	1.128417611	23	202472796	"SID W 32138, Hexokinase	est
686	-0.895003915	-0.669573545	-0.090716049	0.704339385	0.56654799	-1.79099226	0.830082757	0.028836638	23	202484619	682825	682825
2616	-0.544181049	0.008649032	0.289367616	0.714302421	0.036633717	-0.580322385	-0.281255527	-1.37290132	23	202503219	"ESTs Chr.19 [24956	est
2642	-0.256247163	0.573804379	0.807493687	0.249390653	0.419847876	-1.996891737	0.0911621	0.913210809	23	20260874	"SID 277268, ESTs [5', 3'N343396]"	est

Fig. 5B

	501	502	503	504	505	506	507	508	509	511	510	518	519	
2539	-0.11014709	0.623301029	-0.147871226	0.214629188	0.126498416	0.72818777	0.022603825	-2.703047131	23	3.04925062	"ESTSID 47970, [5'H12268, 3]"			est
2178	-0.501060545	0.923337221	-0.361292392	-0.792244315	-0.806491733	-0.533742164	-0.415888637	-2.287745476	23	3.04942806	"SID W 489282, Allograft inflammatory factor 1			est
676	2.256357431	0.682154436	0.576392869	1.257808805	-0.591802716	-0.91300771	0.105959646	-1.358154058	23	3.05417812			643735	1
2349	1.017841697	-2.006494761	-0.335019529	-0.710412264	-0.479137897	0.514294386	-0.315817654	0.558562398	23	3.05470109	"ESTs, Highly similar to ABC1 PROTEIN			est
1019	-1.216183186	0.924363792	-1.160476327	-0.496543884	-0.176264644	0.787338614	-0.741926908	1.49763608	23	3.05550722			651593	651593
897	0.229729205	-0.262540638	-0.151262417	0.399956703	-2.618956089	0.470789493	-0.105083197	0.388281252	23	3.05611789			352277	COLCHICIDE.HCL
604	0.086529441	0.249569282	0.288641036	0.75741607	-1.034515381	0.316785216	0.222775102	-2.615675688	23	3.05997948			125973	Padilaxel—Taxol
1250	0.139389472	-0.464973986	-0.561148703	0.028313726	0.246287167	-0.435980916	-0.366372466	-2.715464115	23	3.0606132	"SID W 308924, HEMOGLOBIN EPSILON 516			est
2636	0.445502162	0.667497993	-0.099431163	-0.102934845	-0.089490089	0.113255903	0.30189085	-2.854664564	23	3.06062148	"SID W 346475, ESTs [5'W79267, 3'W73963]"			est
2304	-0.868036773	-0.757427692	-1.202046275	-0.22473526	-0.271231353	0.377601743	-0.920768334	1.747325573	23	3.06130441			618315	1
1903	-0.434186578	-0.241240531	-0.806135476	-1.897064924	-0.262544274	-0.604771554	0.943289399	1.742468953	23	3.06344603	"CELL SURFACE GLYCOPROTEIN			est
594	-0.048370788	0.724982858	-0.066824582	-1.364990234	0.299276114	1.342619658	-1.376703739	-0.037896372	23	3.06369149			285116	SIOMYCIN
2332	-1.754725814	0.549614727	0.673863113	-1.838849889	-0.282817751	-0.036427103	-0.503492355	0.490387172	23	3.06395533			308806	19-Norandosta-5
158	-0.831058443	-0.69707948	-1.039282799	-0.3603333294	-0.100151271	0.535327554	-1.000355075	1.772130013	23	3.06526925			622282	4H-8-Benzothiazine-4-one
17130.13779665-2.64263331	0.084719293	-0.352687603	0.488820314	0.175730467	-0.02822427	0.310712874		233.06522008			"LYSOSOMAL PRO-X			est

Fig. 5C

	501	502	503	504	505	506	507	508	509	511	510	518	519	
301	-2.159046557	-0.38374579	-0.362219463	-0.880174935	-0.511355692	-0.523803592	-0.583517611	-3.36118078	23	4.45168099			154756	4(1H)-quinazolinone
368	1.128111839	-1.231224298	2.939661741	0.622961879	2.680651665	-1.172544718	-0.279486626	-1.079688999	23	4.4751869			319947	2
276	-3.032975435	-0.575811982	0.958265533	-1.493337393	0.160064042	1.910216331	-0.215414315	-0.741357148	23	4.48179125			671169	671169
130	0.155566205	0.214096382	-2.565924644	-1.521012902	1.150056389	0.048265119	-2.334795952	0.972167492	23	4.51420643			40341	40341
379	0.058175579	0.223759308	3.35061264	-2.051898129	0.423935545	-2.395483382	-0.432306777	-0.156588881	23	4.53169473			150014	Hydrazine
867	-0.635734499	-0.39945513	-0.985673428	0.007821307	0.394960115	1.778084159	-0.629595522	3.595021248	23	4.55150948			620056	620056
474	2.521326542	-1.226664543	2.120594025	-0.813828418	-0.896755338	-2.26730865	2.092173338	-0.379148914	23	4.58190524			613227	Gemcitabine
840	-1.554983735	-1.196304045	-1.275349663	-0.817732751	-0.530491653	1.940306425	-1.660802722	-1.656018734	23	4.59592133			639541	Cyclopentanone
666	1.188946869	-2.268094446	0.368966967	-2.275680065	-0.262194135	-0.740920961	0.719174087	-2.514783859	23	4.59505107			690435	690435
1108	0.907939672	-2.157611847	1.117887974	1.076303601	-0.470761627	1.889004946	2.891302347	-1.196588014	23	4.61314042			135036	SCILLIGLAUCOSIDIN
1015	-1.241233706	1.252034664	-0.426888347	3.099374294	0.735475302	-2.694081306	0.751816511	-2.134509087	23	4.61880662			640500	640500
2291	0.739513397	-0.812014461	0.50046134	0.341778848	0.936436713	3.52483201	-1.121498466	-1.081881046	23	4.63947093			632862	Tetakisoximalisoxyl(1)etra
407	-2.805481911	1.199958444	-1.078627229	-0.350902975	0.920932293	-2.28360796	0.397593498	-2.554911862	23	4.64997051			687850	687850
149	-1.24200666	-1.627678156	-1.903798819	-1.308604002	-0.332455873	1.70836401	-1.783847332	0.590165496	23	4.65915155			267461	Nanacrycin

Fig. 5D

7/8

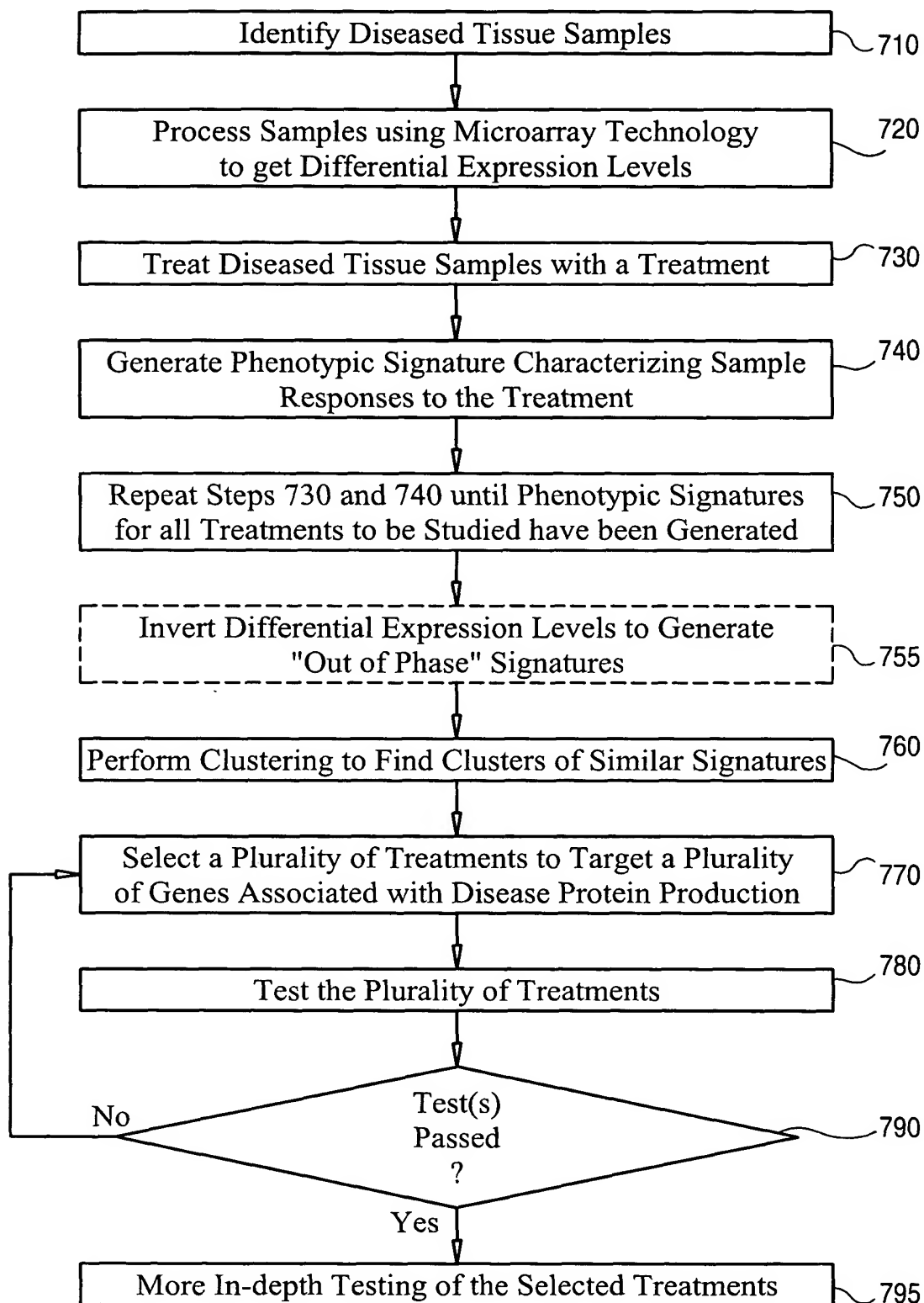


FIG. 7

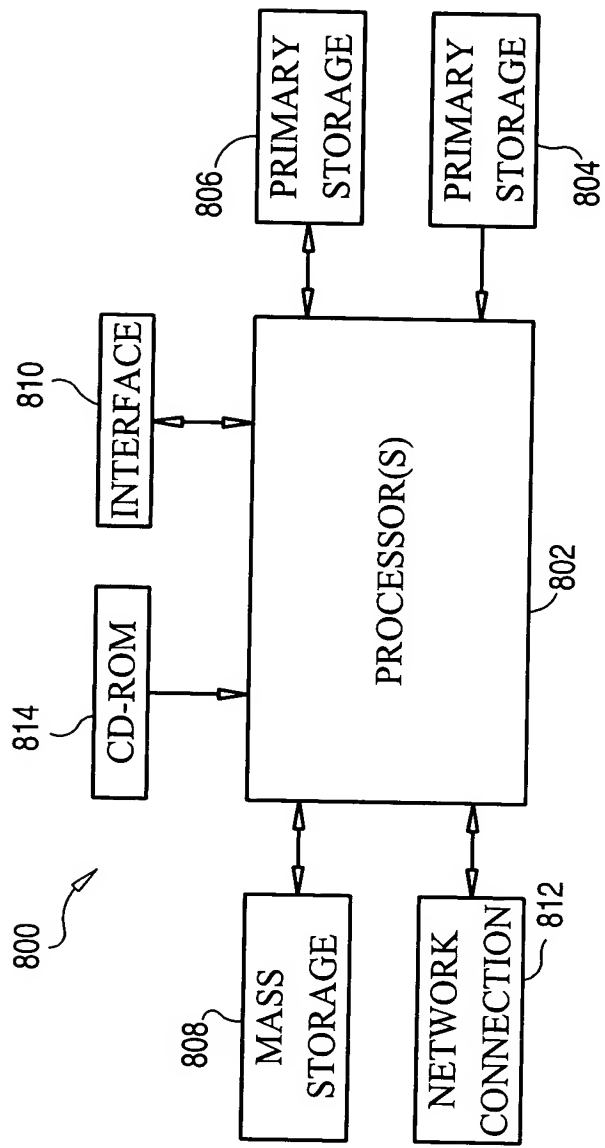


FIG. 8